**FIG. 1**

1 ATGGCCGCTCGCGGGTCTGAACGCCGCGCGCGCGGACCGTCCGGCAGACCGT  
 1 MetAlaAlaArgGlyGlyAlaGluArgAlaAlaGlyAlaGlyAspGlyArgArgGlyGlnArg  
 64 CGTCATCTACGACCGGACGTGTTCTCGCTCTACGCGTCTGCAGCGCTTGGCGCCGGC  
 22 ArgHisLeuArgProGlyArgValLeuAlaAlaLeuArgGlyProAlaAlaProGlyAlaGly  
 127 GGGCGCGCGCGCTAGCCGCTGCCCTGTATGGCGGACGTGGGCCCCTGCTGTCGGCGCG  
 43 GlyAlaArgAlaAlaLeuAlaAlaAlaLeuLeuTTPAlaThrTTPAlaLeuLeuAlaAla  
 190 CCCGCCCGCGGACCGCGACACGCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG  
 64 ProAlaAlaGlyArgProAlaThrThrProProAlaProProGluGluAlaAlaSerPro  
 253 GCGCCCCCGCGAGCCCCAGCCCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGAAC  
 85 AlaProProAlaSerProSerProGlyProGlyProGlyAspAlaAlaSerProAspAsn  
 316 AGCACAGACGTGCGCGCGCGCTCCGGCTCGCGCAGCGCGCGCGGAAACTCGCGCTTCTTC  
 106 SerThrAspValArgAlaAlaLeuArgLeuAlaGlnAlaAlaGlyGluAsnSerArgPhePhe  
 379 GTGTGCCCCCGCCCCCTCGGGCGCCACGGTGTCTCGGCTCGCGCGCGCGCGCGCGCTGAG  
 127 ValCysProProProSerGlyAlaThrValValArgLeuAlaProAlaArgProCysProGlu  
 442 TACGGGCTCGGGCGGAACCTACACGGAGGGCATCGGCGTCAATTACAAGAGAACATCGCGCG  
 148 TyrGlyLeuGlyArgAsnTyrThrGluGlyIleGlyValIleTyrLysGluAsnIleAlaPro  
 505 TACAGTTCAAGGCCCTACATTTACAAAACGTATCGTGACCGACCGACCTGGGCGGCAGCAG  
 169 TyrThrPheLysAlaTyrIleTyrLysAsnValIleValThrThrThrTTPAlaGlySerThr

FIG. 2A

568 TACGGCGCCATTACAAACAGTACACGACCGCGTCCCGTGGCATGGCGAGATCACCGAC  
190 ▶ TyzAlaAlaIleThrAsnGlnTyrThrAspArgValProValGlyMetGlyGluIleThrASP  
631 CTGGTGGACAAGAAGTGGCGCTGCCCTTTCGAAAGCCGAGTACCTGCGCAGCGCGCAAGGTG  
211 ▶ LeuValAspLysLysThrArgCysLeuSerLysAlaGluTyrLeuArgSerGlyArgLysVal  
694 GTGGCCTTTGACCGGACGACGACCCCTGGAGCGCGCGCTGAAGCCTGCGCGCGCTGAGCGCG  
232 ▶ ValAlaPheAspArgAspAspProThrGluAlaProLeuLysProAlaArgLeuSerAla  
757 CCCGGGTGGCGGTGCCACACGACGACGATGTGTACACGGCGCTGGGCTCGGCGGGGCTC  
253 ▶ ProGlyValArgGlyTyrPheIleThrThrAspValTyrThrAlaLeuGlySerAlaGlyLeu  
820 TACCGCACGGCACCTCTGTGAACGTGCTGAAGAAGTGGAGCGCGCTCGGTGTACCCG  
274 ▶ TyrArgThrGlyThrSerValAsnCysIleValGluGluValGluAlaArgSerValTyrPro  
883 TACGACTCGTTCGGCTCTCGACCGGGACATTATCTACATGTCCGCCCTTTTACGGGCTCGGC  
295 ▶ TyrAspSerPheAlaLeuSerThrGlyAspIleIleTyrMetSerProPheTyrGlyLeuArg  
946 GAGGGCGCGCACCGGAGCACACAGGCTACTCGCCGGAGCGCTTCCAGCAGATCGAGGGCTA  
316 ▶ GluGlyAlaHisArgGluHisThrArgLeuLeuAlaGlyAlaLeuProAlaAspArgGlyLeu  
1009 CTACAAGCGGACATGGCCACGGCCCGCGCTCAAGGAGCGGTCTCGCGGAACTTTGTGCG  
337 ▶ LeuGlnAlaArgHisGlyHisGlyProAlaProGlnGlyAlaGlyLeuAlaGluLeuPheAla  
1072 TACACAGCACGTGACGGTAGCCTGGGACTGGGTGCCCAAGCGCAAAACGTGTGCTCGCTGGC  
358 ▶ TyrThrAlaArgAspGlySerLeuGlyLeuGlyAlaGlnAlaGlnLysArgValLeuAlaGly

FIG. 2B

1135 CAAGTGGCGGAGCGGACGAAATGCTGCCGAGACGAGCGCGGGAACCTCCGCTTCACGGC  
 379 GlnValAlaArgGlyGlyArgAsnAlaAlaArgArgGluProArgGluLeuProLeuHisGly  
 1198 CCGCTCGCTCTCGCGACCTTTTGTGAGCGACAGCCACACCTTCGCGTTGCAGAAATGTGCCGCT  
 400 ProLeuAlaLeuGlyAspLeuCysGluArgGlnProHisLeuArgValAlaGluCysAlaAla  
 1261 GAGCGACTGCGTGATCGAAGAGCGCGGAGCGCGGTCTACCGGAGCGCTACAA  
 421 GluArgLeuArgAspArgArgGlyArgGlyArgAlaArgLeuProArgAlaLeuGln  
 1324 CGGCACGCACGTGCTCGGGCAGCTTGGAGACGTACCTGGCGCGCGGCTTTGTCTGCTGGC  
 442 ArgHisAlaArgAlaValGlyGlnLeuGlyAspValProGlyAlaArgLeuCysArgGly  
 1387 CTTCGGCGATGCTCAGCAACGAGCTGGCCAAGCTGTACCTGCAGGAGCTGGCGCGCTCGAAC  
 463 LeuProAlaMetLeuSerAsnGluLeuAlaLysLeuTyrLeuGlnGluLeuAlaArgSerAsn  
 1450 GGCACGCTCGAGGGCTGTTCCGCGCGCGGCCCAAGCCGGCGCGCGCGCGCGCGCGCGC  
 484 GlyThrLeuGluGlyLeuPheAlaAlaAlaProLysProGlyProArgArgAlaArgArg  
 1513 GCCGCGCGCTCTGC  
 505 AlaAlaProSerAlaProGlyGlyProGlyAlaAlaAsnGlyProAlaGlyAspGlyAspAla  
 1576 GGCGGGCGGTGACTACCGTGAGCTCGGCGCGAGTTTGCGGCGCTGCAGTTCACCTACGACCAC  
 526 GlyGlyArgValThrThrValSerSerAlaGluPheAlaAlaLeuGlnPheThrTyrAspHis  
 1639 ATCCAGGACCACTGACACCATGTTTCAGCCCGCTGGCCACGTCTGTGCTGCTGCTGCGAAC  
 547 IleGlnAspHisValAsnThrMetPheSerArgLeuAlaThrSerTrpCysLeuLeuGlnAsn

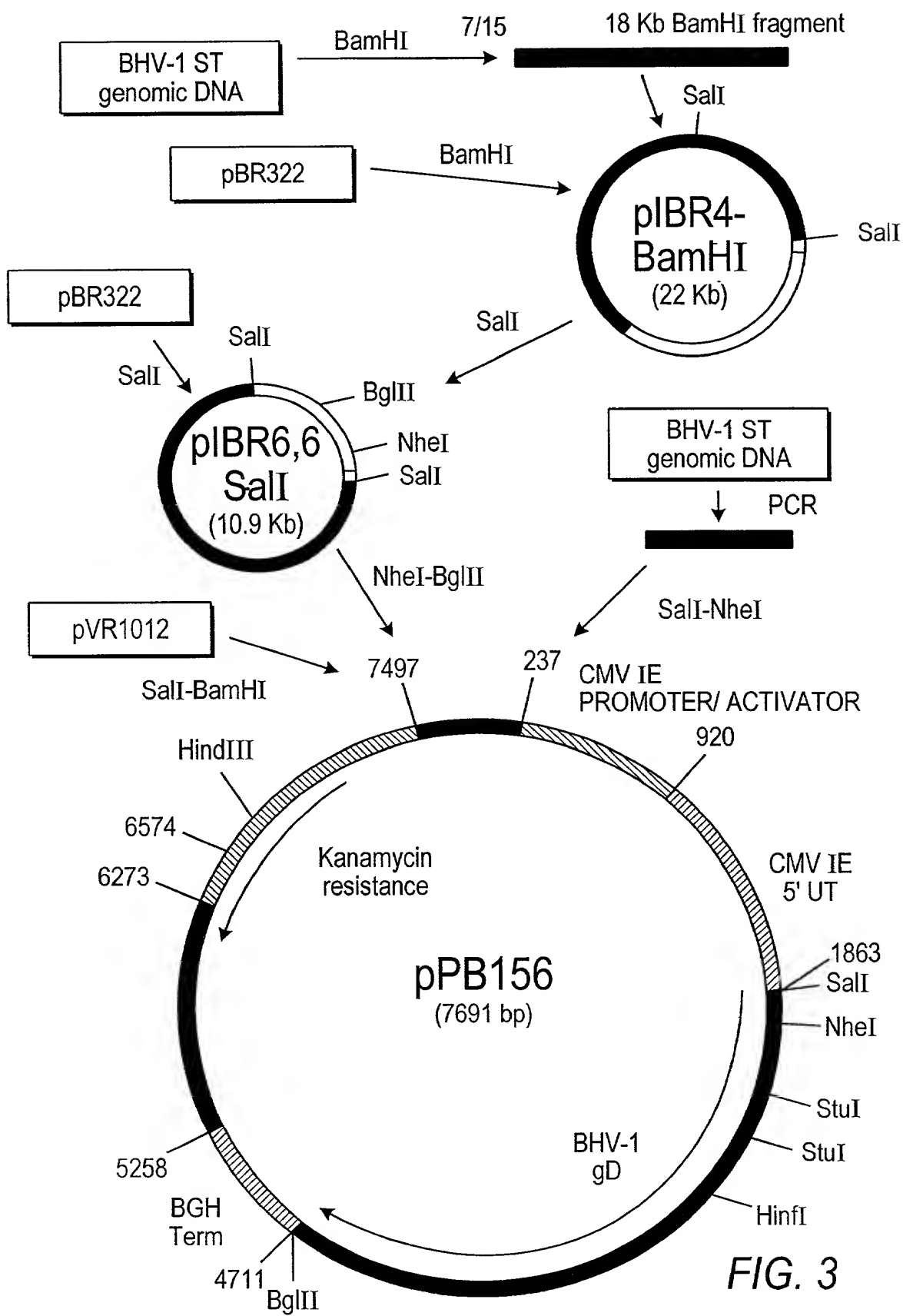
FIG. 2C

1702 AAGAGCGCGCCCTGTGGCCGAGCGGCTAAGCTCAACCCAGCGCGCGCCAGCGCTGCG  
568 ▶ LysGluArgAlaLeuThrAlaGluAlaAlaLysLeuAsnProSerAlaAlaAlaSerAlaAla  
1765 CTGGACCGCGCGCGCGCATGTTGGGGACGCCATGGCCGTACGTACTGCCACCGAG  
589 ▶ LeuAspArgAlaAlaAlaArgMetLeuGlyAspAlaMetAlaValThrTyrCysHisGlu  
1828 CTGGCGAGGGCGGTGTTTCATCGAGAACTCGATCGCGCGCGCGCGGCTTGTCTACAGC  
610 ▶ LeuGlyGluGlyArgValPheIleGluAsnSerMetArgAlaProGlyGlyValCysTyrSer  
1891 CGCCCGCGGTCTCCTTTGCCCTTCGGCAACGAGAGCGCGGTGGAGGGCCAGCTCGCGGAG  
631 ▶ ArgProProValSerPheAlaPheGlyAsnGluSerGluProValGluGlyGlnLeuGlyGlu  
1954 GACAAACGAGCTGCTGCCGCGCGGAGCTCGTGGAGCCCTGCACCGCCAAACCAAGCGCTAC  
652 ▶ AspAsnGluLeuLeuProGlyArgGluLeuValGluProCysThrAlaAsnHisLysArgTyr  
2017 TTCCGCTTTGGCGGACTACGTGTACTACGAGAACTACGCTACGTGCGGGGGTCCCGCTC  
673 ▶ PheArgPheGlyAlaAspTyrValTyrTyrGluAsnTyrAlaTyrValArgArgValProLeu  
2080 GCGGAGCTGGAGGTGATCAGCACCTTTGTGGACCTAAACCTCACGGTTCTGGAGGACCGCGAG  
694 ▶ AlaGluLeuGluValIleSerThrPheValAspLeuAsnLeuThrValLeuGluAspArgGlu  
2143 TTCTTGCCGCTAGAGTGTAACGCGCGCGAGCTCGCCGACACGGGTCTGCTCGACTACAGC  
715 ▶ PheLeuProLeuGluValTyrThrArgAlaGluLeuAlaAspThrGlyLeuLeuAspTyrSer  
2206 GAGATACAGCGCGCAACGAGCTGCACGAGCTCCGTTCTACGACATTGACCGCGGTGTCAG  
736 ▶ GluIleGlnArgArgAsnGlnLeuHisGluLeuArgPheTyrAspIleAspArgValValLys

FIG. 2D

2269 ACGACGGCAATATGGCCATCATCGAGGGCTCGCCAACTTCTTTCAGGGCCTGGGGCCGCTC  
 757 ▶ ThrAspGlyAsnMetAlaIleMetArgGlyLeuAlaAsnPhenGlnGlyLeuGlyAlaVal  
 2332 GGGCAGGCGGTGGCACGGTGTGTCTGGGCGCGGGTGCCCGCTCTCGACCGTGTCTGGGC  
 778 ▶ GlyGlnAlaValGlyThrValValLeuGlyAlaAlaGlyAlaLeuSerThrValSerGly  
 2395 ATCGCCTCGTTTATTGCGAACCCGTTTCGGCGCGCTGGCCACGGGGCTGTGTCTCGCCGGG  
 799 ▶ IleAlaSerPheIleAlaAsnProPheGlyAlaLeuAlaThrGlyLeuLeuValLeuAlaGly  
 2458 CTGGTGGCCGCTTTCCTGGCGTACCGGTACATTTCGCCCTCCGACGAAACCCCATGAAGCGG  
 820 ▶ LeuValAlaAlaPheLeuAlaTyrArgTyrIleSerArgLeuArgSerAsnProMetLysAla  
 2521 CTGTACCCGATCACCCGCGCGCTCAAGGACGACGCGCGGGCGCAACCGCGCGGAG  
 841 ▶ LeuTyrProIleThrThrArgAlaLeuLysAspAlaArgGlyAlaThrAlaProGlyGlu  
 2584 GAAGAGGAGGAGTTTGACGCGGCCAAACTGGAGCAGGCCCGCGAGATGATCAAGTATATGTCTG  
 862 ▶ GluGluGluGluPheAspAlaAlaLysLeuGluGlnAlaArgGluMetIleLysTyrMetSer  
 2647 CTCGTGTACGGGTCTGAGCGGCAAGAGCACAAAGCGAAAGAGCAACAAGGGCGGCCCGCTG  
 883 ▶ LeuValSerAlaValGluArgGlnGluHisLysAlaLysLysSerAsnLysGlyGlyProLeu  
 2710 CTGGCGACCCGGCTGACGCACTCGCGCTTCGGCGCGAGCGCGCGAGTACCAGCAGCTT  
 904 ▶ LeuAlaThrArgLeuThrGlnLeuAlaLeuArgArgAlaProProGluTyrGlnGlnLeu  
 2773 CCGATGCGCGACGTCGGGGGCGCATGA  
 925 ▶ ProMetAlaAspValGlyGlyAla...

FIG. 2E



**FIG. 3**

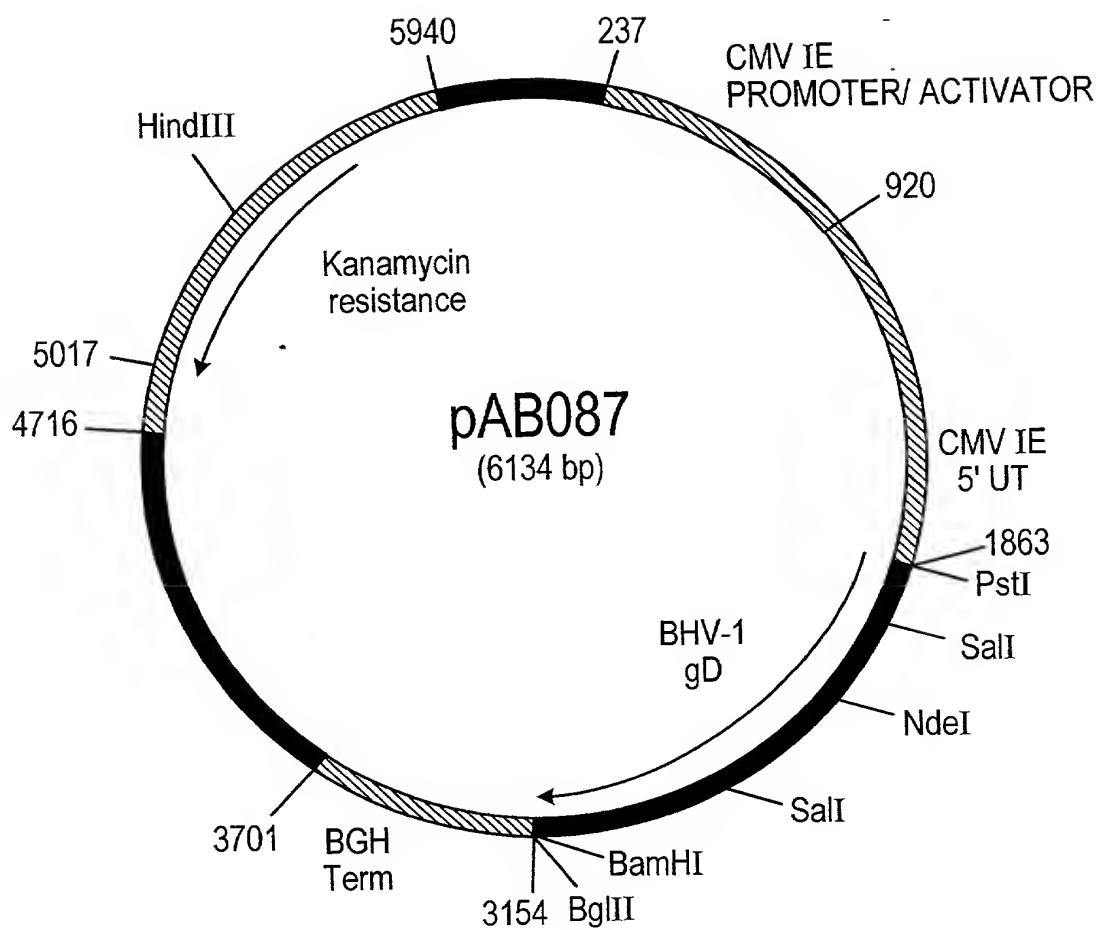
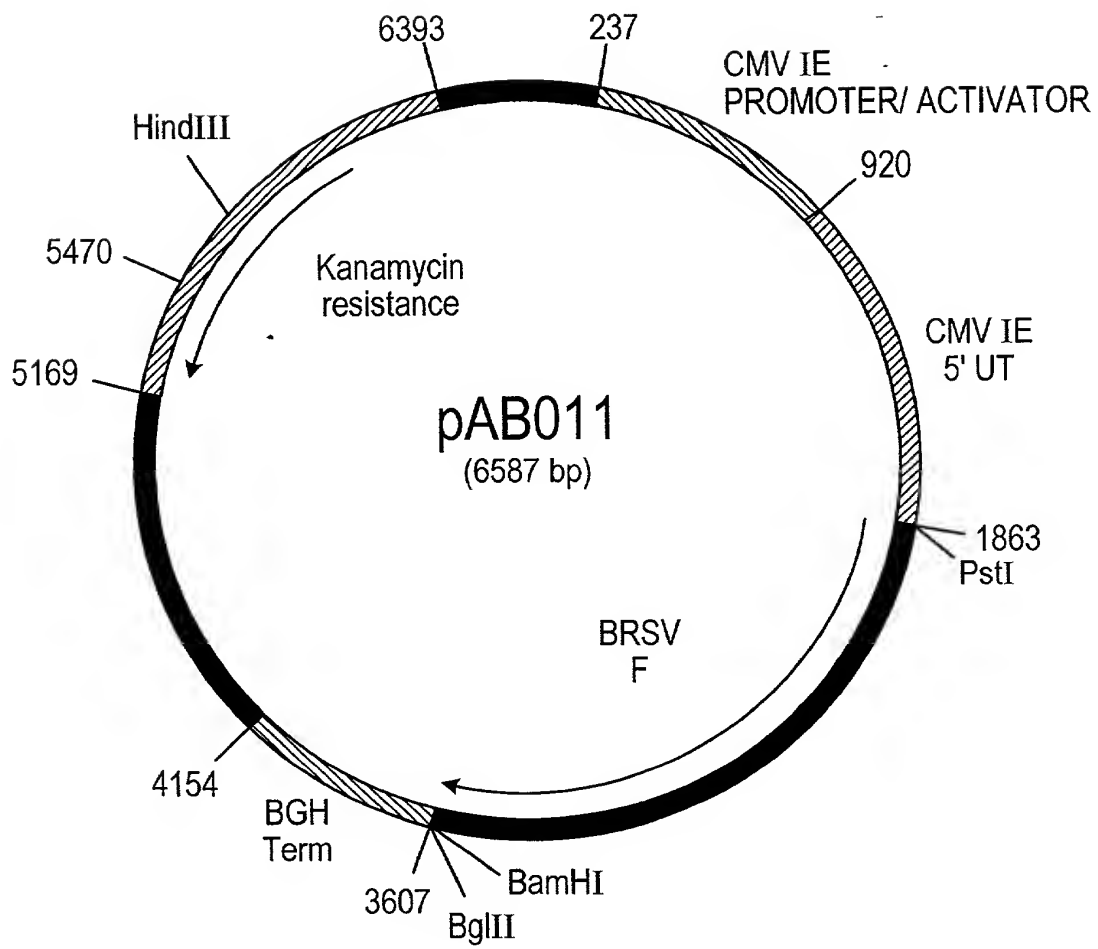
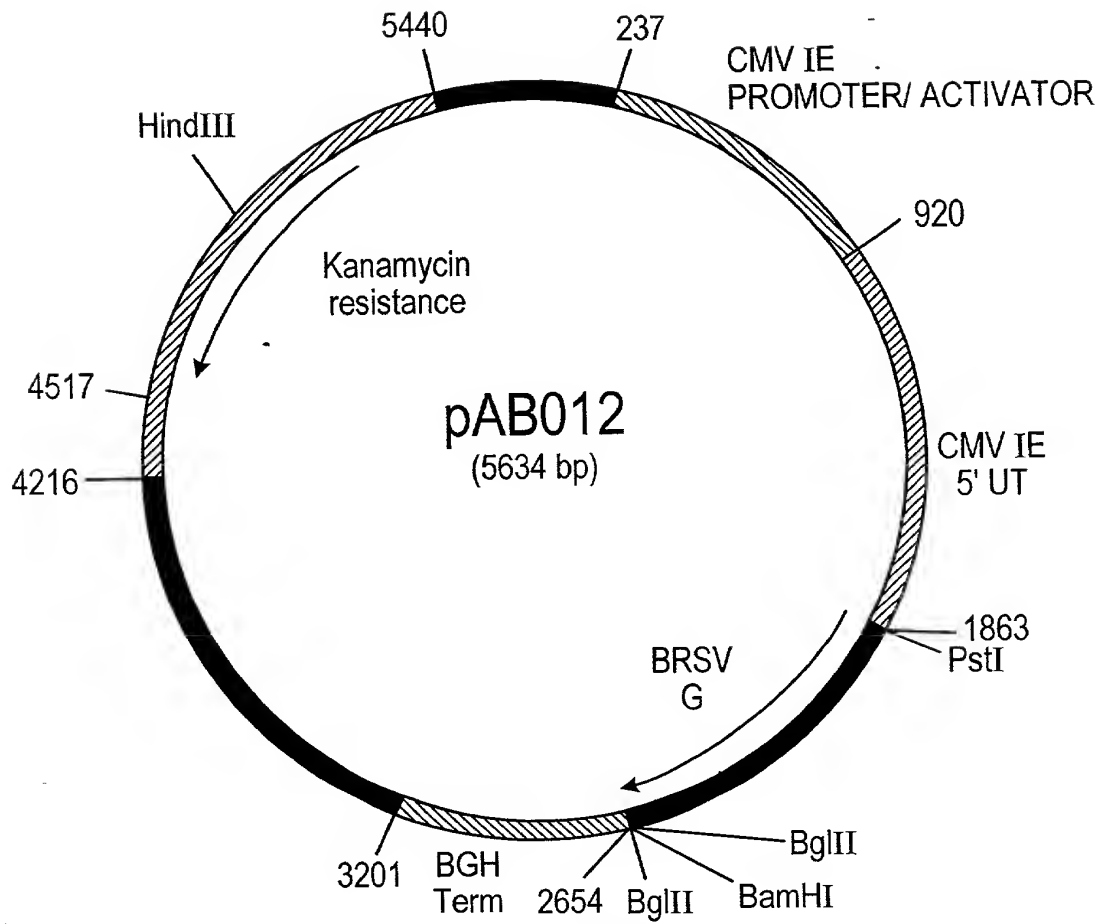


FIG. 4

**FIG. 5**

**FIG. 6**

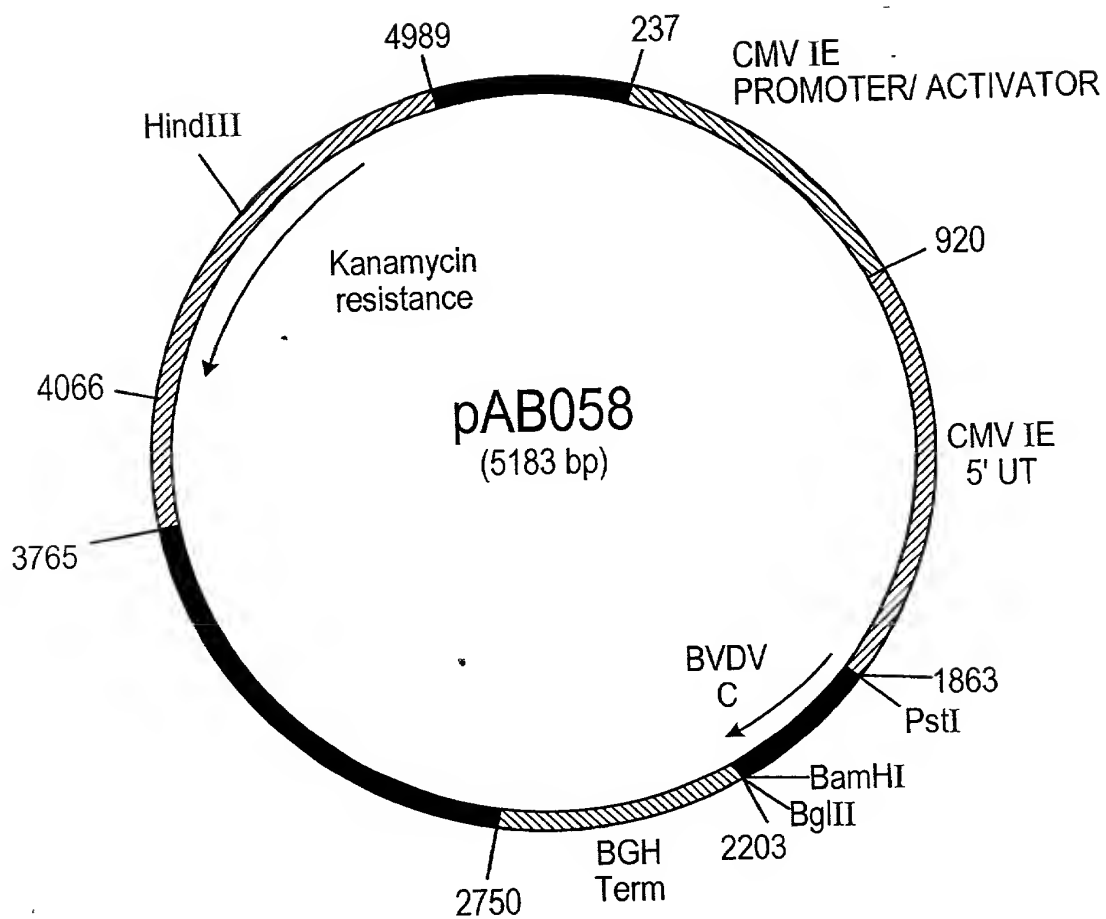
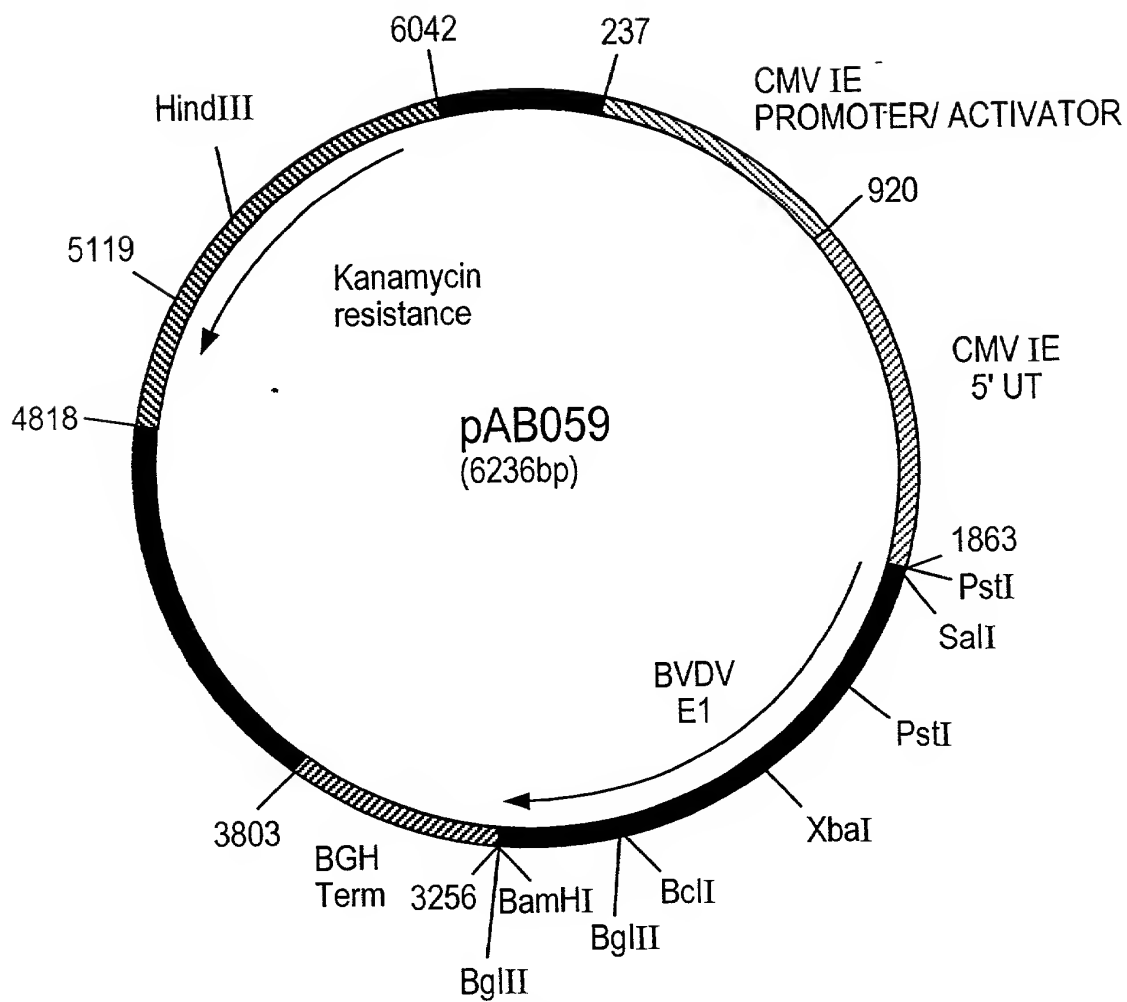
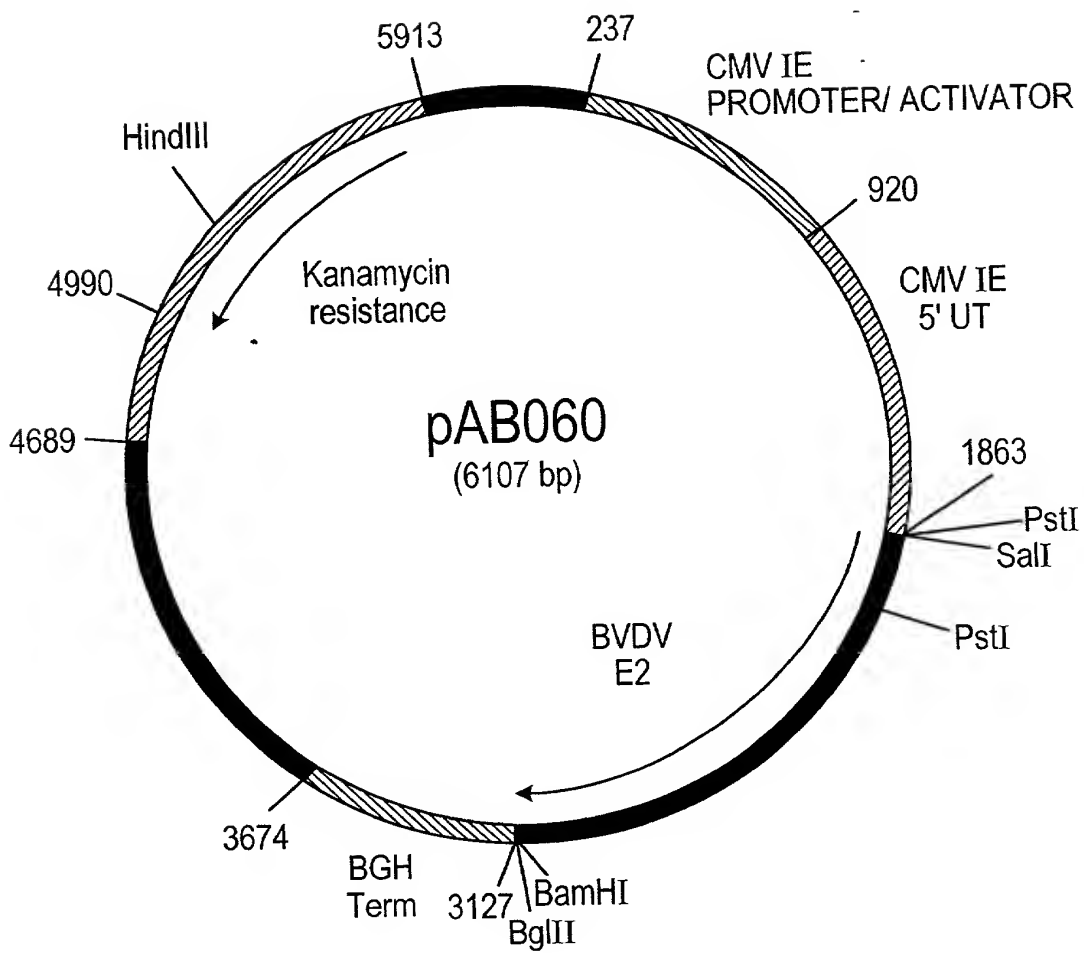


FIG. 7

**FIG. 8**

**FIG. 9**

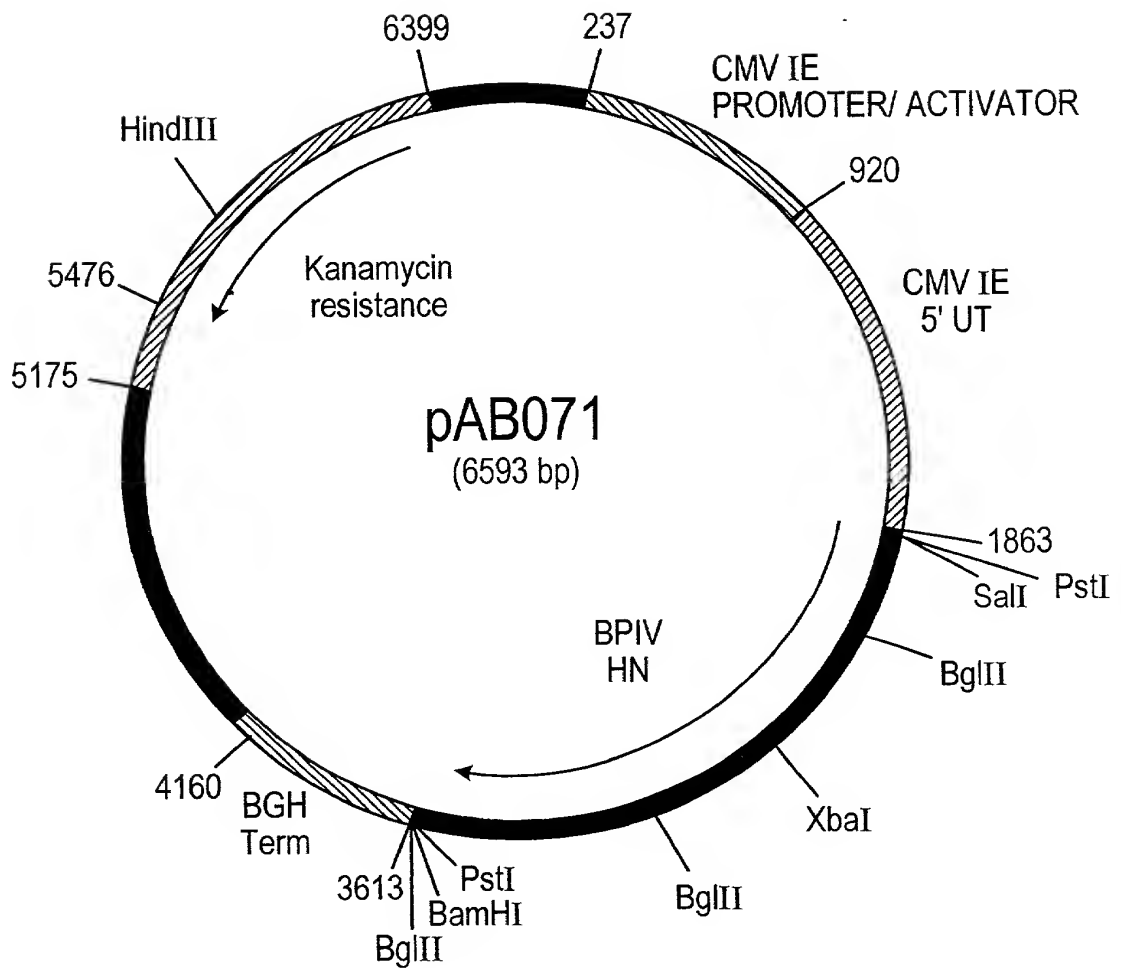


FIG. 10

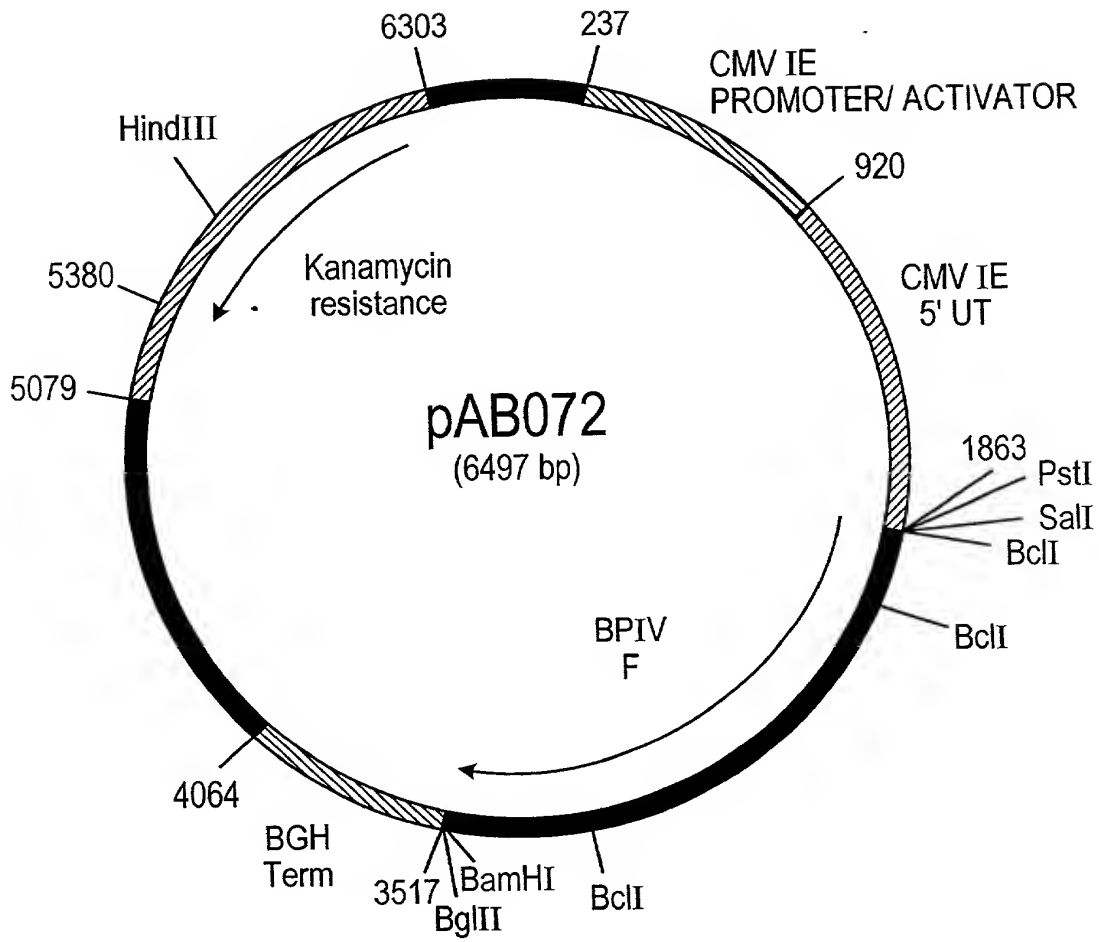


FIG. 11